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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-12-13-73 **Date: 16-08-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division,
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the work of Construction Of CC Road at Chikkabommasandra cross road In Ward No 04
Agency	:	Sri K. Ravikumar, No 48, Guniagrahar Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/WO/27/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-08-2018
Sample ID No	:	2018-12-13-73 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	14-08-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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Certificate No.: TC- 554

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-13-73**
		Date: 11-09-2018
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the work of Construction Of CC Road at Chikkabommasandra cross road In Ward No 04
Agency	:	Sri K. Ravikumar, No 48, Guniagrahar Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/WO/27/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-08-2018
Sample ID No	:	2018-12-13-73 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 :2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	14-08-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SL.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/08/2018

Lab ID	:	**CP-2018-12-13-73**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the work of Construction Of CC Road at Chikkabommasandra cross road In Ward No 04
Agency	:	Sri K. Ravikumar, No 48, Guniagrahar Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/WO/27/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-08-2018
Sample ID No	:	2018-12-13-73 /05
Customer ID	:	M20 CONCRETE
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 CONCRETE	M20	22/08/2018	29/08/2018	150.52 X 150.35 X 150.46	22631	8.312	393.8	17.4	17.6
2	M20 CONCRETE	M20	22/08/2018	29/08/2018	150.54 X 150.44 X 150.43	22647	8.331	405.4	17.9	
3	M20 CONCRETE	M20	22/08/2018	29/08/2018	150.38 X 150.45 X 150.54	22625	8.345	398.2	17.6	

Note:
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Authorized Signatory
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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-12-13-73** **Date: 19/09/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the work of Construction Of CC Road at Chikkabommasandra cross road In Ward No 04
Agency	:	Sri K. Ravikumar, No 48, Guniagrahar Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/WO/27/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-08-2018
Sample ID No	:	2018-12-13-73 /06
Customer ID	:	M20 CONCRETE
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 CONCRETE	M20	22/08/2018	19/09/2018	150.58 X 150.45 X 150.38	22655	8.312	527.9	23.3	23.4
2	M20 CONCRETE	M20	22/08/2018	19/09/2018	150.54 X 150.45 X 150.48	22649	8.331	534.5	23.6	
3	M20 CONCRETE	M20	22/08/2018	19/09/2018	150.38 X 150.52 X 150.37	22635	8.345	529.7	23.4	

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-13-73

Date: 05/09/2018

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP,Bangalore.

Project Name : Intimation of Work Order to Start the work of Construction Of CC Road at Chikkabommasandra cross road In Ward No 04

Agency : Sri K. Ravikumar, No 48, Guniagrahar Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-21/WO/27/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-08-2018

Sample ID No : 2018-12-13-73 /01

Customer ID : CEMENT CONCRETE PAVEMENT

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CEMENT CONCRETE PAVEMENT	M20	29/08/2018	05/09/2018	150.48 X 150.57 X 150.42	22658	8.312	398.8	17.6	17.7
2	CEMENT CONCRETE PAVEMENT	M20	29/08/2018	05/09/2018	150.52 X 150.42 X 150.47	22641	8.331	405.3	17.9	
3	CEMENT CONCRETE PAVEMENT	M20	29/08/2018	05/09/2018	150.41 X 150.52 X 150.37	22640	8.345	400.7	17.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/09/2018

Lab ID	:	**CP-2018-12-13-73**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the work of Construction Of CC Road at Chikkabommasandra cross road In Ward No 04
Agency	:	Sri K. Ravikumar, No 48, Guniagrahar Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/WO/27/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-08-2018
Sample ID No	:	2018-12-13-73 /02
Customer ID	:	CEMENT CONCRETE PAVEMENT
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CEMENT CONCRETE PAVEMENT	M20	29/08/2018	26/09/2018	150.52 X 150.47 X 150.60	22649	8.312	534.5	23.6	23.6
2	CEMENT CONCRETE PAVEMENT	M20	29/08/2018	26/09/2018	150.52 X 150.47 X 150.46	22649	8.331	536.8	23.7	
3	CEMENT CONCRETE PAVEMENT	M20	29/08/2018	26/09/2018	150.48 X 150.52 X 150.39	22650	8.345	530.0	23.4	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/09/2018

Lab ID	:	**CP-2018-12-13-73**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the work of Construction Of CC Road at Chikkabommasandra cross road In Ward No 04
Agency	:	Sri K. Ravikumar, No 48, Guniagrahar Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/WO/27/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-08-2018
Sample ID No	:	2018-12-13-73 /03
Customer ID	:	CEMENT CONCRETE PAVEMENT
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CEMENT CONCRETE PAVEMENT	M20	29/08/2018	05/09/2018	150.42 X 150.38 X 150.45	22620	8.312	402.6	17.8	17.8
2	CEMENT CONCRETE PAVEMENT	M20	29/08/2018	05/09/2018	150.52 X 150.42 X 150.45	22641	8.331	405.3	17.9	
3	CEMENT CONCRETE PAVEMENT	M20	29/08/2018	05/09/2018	150.40 X 150.46 X 150.52	22629	8.345	398.3	17.6	

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Certificate No.: TC- 5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 05/09/2018

Lab ID	:	CP-2018-12-13-73
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the work of Construction Of CC Road at Chikkabommasandra cross road In Ward No 04
Agency	:	Sri K. Ravikumar, No 48, Guniagrahar Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/WO/27/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-08-2018
Sample ID No	:	2018-12-13-73 /05
Customer ID	:	CEMENT CONCRETE PAVEMENT
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CEMENT CONCRETE PAVEMENT	M20	29/08/2018	05/09/2018	150.48 X 150.45 X 150.56	22640	8.312	389.4	17.2	17.4
2	CEMENT CONCRETE PAVEMENT	M20	29/08/2018	05/09/2018	150.44 X 150.54 X 150.41	22647	8.331	396.3	17.5	
3	CEMENT CONCRETE PAVEMENT	M20	29/08/2018	05/09/2018	150.48 X 150.54 X 150.37	22653	8.345	398.7	17.6	

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Certificate No.: TC-55

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/09/2018

Lab ID	:	CP-2018-12-13-73
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the work of Construction Of CC Road at Chikkabommasandra cross road In Ward No 04
Agency	:	Sri K. Ravikumar, No 48, Guniagrahar Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/WO/27/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-08-2018
Sample ID No	:	2018-12-13-73 /06
Customer ID	:	CEMENT CONCRETE PAVEMENT
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CEMENT CONCRETE PAVEMENT	M20	29/08/2018	26/09/2018	150.48 X 150.54 X 150.41	22653	8.312	525.6	23.2	23.3
2	CEMENT CONCRETE PAVEMENT	M20	29/08/2018	26/09/2018	150.53 X 150.48 X 150.45	22652	8.331	532.3	23.5	
3	CEMENT CONCRETE PAVEMENT	M20	29/08/2018	26/09/2018	150.35 X 150.54 X 150.42	22634	8.345	527.4	23.3	

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Certificate No.: TC-554

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/09/2018

Lab ID	:	CP-2018-12-13-73
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the work of Construction Of CC Road at Chikkabommasandra cross road In Ward No 04
Agency	:	Sri K. Ravikumar, No 48, Guniagrahar Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/WO/27/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-09-2018
Sample ID No	:	2018-12-13-73 /01
Customer ID	:	CEMENT CONCRETE PAVEMENT
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CEMENT CONCRETE PAVEMENT	M20	10/09/2018	17/09/2018	150.52 X 150.35 X 150.46	22631	8.312	389.2	17.2	17.4
2	CEMENT CONCRETE PAVEMENT	M20	10/09/2018	17/09/2018	150.54 X 150.44 X 150.43	22647	8.331	396.3	17.5	
3	CEMENT CONCRETE PAVEMENT	M20	10/09/2018	17/09/2018	150.38 X 150.45 X 150.54	22625	8.345	398.2	17.6	

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/09/2018

Lab ID	:	**CP-2018-12-13-73**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the work of Construction Of CC Road at Chikkabommasandra cross road In Ward No 04
Agency	:	Sri K. Ravikumar, No 48, Guniagrahar Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/WO/27/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-09-2018
Sample ID No	:	2018-12-13-73 /03
Customer ID	:	CEMENT CONCRETE PAVEMENT
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CEMENT CONCRETE PAVEMENT	M20	10/09/2018	17/09/2018	150.48 X 150.38 X 150.56	22629	8.312	393.7	17.4	17.3
2	CEMENT CONCRETE PAVEMENT	M20	10/09/2018	17/09/2018	150.48 X 150.54 X 150.45	22653	8.331	380.6	16.8	
3	CEMENT CONCRETE PAVEMENT	M20	10/09/2018	17/09/2018	150.45 X 150.52 X 150.35	22646	8.345	398.6	17.6	

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-12-13-73**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the work of Construction Of CC Road at Chikkabommasandra cross road In Ward No 04
Agency	:	Sri K. Ravikumar, No 48, Guniagrahar Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/WO/27/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-08-2018
Sample ID No	:	2018-12-13-73 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	17-08-2018

Date: 18-08-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-12-13-73** **Date: 18-08-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the work of Construction Of CC Road at Chikkabommasandra cross road In Ward No 04
Agency	:	Sri K. Ravikumar, No 48, Guniagrahar Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/WO/27/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-08-2018
Sample ID No	:	2018-12-13-73 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	16-08-2018
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/08/2018

Lab ID	:	**CP-2018-12-13-73**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the work of Construction Of CC Road at Chikkabommasandra cross road In Ward No 04
Agency	:	Sri K. Ravikumar, No 48, Guniagrahar Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/WO/27/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-08-2018
Sample ID No	:	2018-12-13-73 /01
Customer ID	:	M20 CONCRETE
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 CONCRETE	M20	22/08/2018	29/08/2018	150.51 X 150.42 X 150.38	22640	8.203	408.3	18.0	18.4
2	M20 CONCRETE	M20	22/08/2018	29/08/2018	150.54 X 150.45 X 150.36	22649	8.710	417.1	18.4	
3	M20 CONCRETE	M20	22/08/2018	29/08/2018	150.36 X 150.54 X 150.37	22635	8.404	426.7	18.9	

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M : 9972924526 | Tel : +91 80 23444801 | e : rochan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/08/2018

Lab ID	:	**CP-2018-12-13-73**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the work of Construction Of CC Road at Chikkabommasandra cross road In Ward No 04
Agency	:	Sri K. Ravikumar, No 48, Guniagrahar Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/WO/27/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-08-2018
Sample ID No	:	2018-12-13-73 /03
Customer ID	:	M20 CONCRETE
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	29/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 CONCRETE	M20	22/08/2018	29/08/2018	150.48 X 150.52 X 150.43	22650	8.312	396.4	17.5	17.5
2	M20 CONCRETE	M20	22/08/2018	29/08/2018	150.52 X 150.35 X 150.42	22631	8.331	393.8	17.4	
3	M20 CONCRETE	M20	22/08/2018	29/08/2018	150.52 X 150.38 X 150.33	22635	8.345	398.4	17.6	

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-13-73** **Date: 17-08-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the work of Construction Of CC Road at Chikkabommasandra cross road In Ward No 04
Agency	:	Sri K. Ravikumar, No 48, Guniagrahar Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/WO/27/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	14-08-2018
Sample ID No	:	2018-12-13-73 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	14-08-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-13-73** **Date: 16-08-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the work of Construction Of CC Road at Chikkabommasandra cross road In Ward No 04
Agency	:	Sri K. Ravikumar, No 48, Guniagrahar Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-21/WO/27/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-2018
Sample ID No	:	2018-12-13-73 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	14-08-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	–

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-13-73** **Date: 16-08-2018**

Sample ID No : 2018-12-13-73 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.43	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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